

Title (en)

Integral switched capacitor for filter/digital to analog converter for sigma-delta encoded digital audio.

Title (de)

Integraler FIR Filter/Digital-Analog-Wandler mit geschalteten Kapazitäten für sigma-delta-kodierte digitale Audiosignale.

Title (fr)

Filtre FIR/convertisseur numérique-analogique à capacités commutés pour des signaux audio-numériques codés en format sigma-delta.

Publication

EP 0421651 A2 19910410 (EN)

Application

EP 90310464 A 19900925

Priority

US 41721989 A 19891004

Abstract (en)

A combined finite impulse response filter and digital-to-analog converter for converting sigma-delta over-sampled data into analog form. The filter removes out-of-band noise energy from the reconstructed analog signal resulting from the sigma-delta encoding process. The filter/converter is implemented in switched-capacitor technology. Further, a method of designing the optimum number of taps and the tap weight coefficients of the filter is given.

IPC 1-7

G11B 20/10; **H03H 17/06**; **H03H 19/00**; **H03H 21/00**; **H03M 1/80**; **H03M 1/86**; **H03M 3/02**

IPC 8 full level

H03M 3/04 (2006.01); **G11B 20/10** (2006.01); **H03H 17/00** (2006.01); **H03H 17/06** (2006.01); **H03H 19/00** (2006.01); **H03H 21/00** (2006.01); **H03M 3/02** (2006.01)

CPC (source: EP US)

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Cited by

DE19630052A1; DE19619208A1; DE19711715B4; KR100383521B1; EP0686320A4; EP1162749A3

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